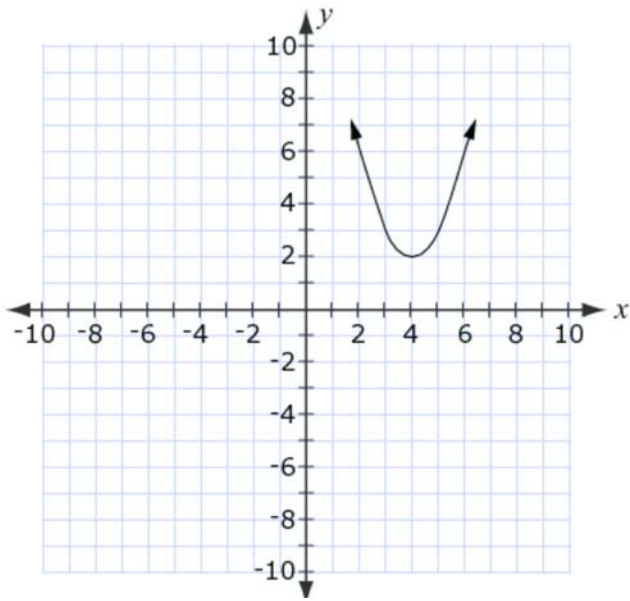


Honors Geometry Summer Math Packet Answers

1.



2. $10x^2 - 3x - 18$ or its equivalent

3.

	Yes	No
$(x + 8)^3$	<input type="checkbox"/>	<input checked="" type="checkbox"/>
$(x - 2)(x^2 + 2x + 4)$	<input type="checkbox"/>	<input checked="" type="checkbox"/>
$(x + 2)(x^2 - 2x + 4)$	<input checked="" type="checkbox"/>	<input type="checkbox"/>

4. -5 and $3\sqrt{2}$

5. $n = \left\{ \frac{5}{3}, -\frac{5}{3} \right\}$

6. -4.2 to -4

7. 9

8. A) $(17 + 2w)(13 + 2w) = 396$ or its equivalent

B) $w = \frac{5}{2}$ or equivalent values

9. D

Honors Geometry Summer Math Packet Answers

10. $2t + 3t = 24$ or an equivalent equation

11. *Sample Response:*

I would buy the ticket from Airline P. Both airlines are likely to have an on-time arrival since they both have median values at 0. However, Airline Q has a much greater range in arrival times. Airline Q could arrive anywhere from 35 minutes early to 60 minutes late. For Airline P, the flights arrived within 10 minutes on either side of the scheduled arrival time about $\frac{2}{3}$ of the time, and for Airline Q, that number was only about $\frac{1}{2}$. For these reasons, I think Airline P is the better choice.

12. *Sample response:*

Tina is incorrect because some orders of basic transformations do not produce the same results.

Suppose we move triangle A 2 units to the right first.

The point (4, 3) is then (6, 3). Then, we take the reflection across the x-axis, which makes that point (6, -3). A reflection of (6, -3) across the y-axis gives us (-6, -3), which is not one of the vertices of triangle A'. Therefore, the basic transformations done in any order do not produce the same result.

13. B

14.

- the cause of the traffic jam
- the average length of a vehicle
- the number of lanes on the highway
- the average distance between vehicles
- the average number of people in each vehicle
- the distance from the beginning to the end of the traffic jam